

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A power module for AC/AC power conversion ~~is a power module in which~~ comprising:

multiple converter components ~~constituting~~ including a multiple phase converter (10), multiple smoothing condensers (5), and multiple inverter components ~~constituting~~ including a multiple phase inverter (20) ~~can~~ configured to be mounted on a substrate which has been formed ~~necessary~~ required wirings,

~~the power module is arranged in that~~ at least a part of the converter components, at least a part of the smoothing condensers (5), and at least a part of the inverter components complying with required specification of the power module are mounted on the substrate, and ~~that necessary~~ having a required jumper ~~means are provided.~~

2. (Currently Amended) A power module as set forth in claim 1, wherein a three phase converter (10) is employed as the multiple phase converter (10), the number of smoothing condensers (5) is determined to be 2, and a three phase inverter (20) is employed as the multiple phase inverter (20).

3. (Currently Amended) A power module as set forth in claim 2, wherein the three phase converter (10) comprises a pair of transistors (1) serially connected to one another for each phase, and diodes (2) each connected in parallel to each transistor (1), at least a part of diodes (2) and/or at least a part of transistors (1) and diodes (2) complying with the required specification of the power module ~~are~~ mounted on the substrate, and having the necessary required jumper ~~means are provided.~~

4. (Currently Amended) A power module as set forth in claim 2, wherein the three phase converter (10) comprises a pair of transistors (1) serially connected to one another for each phase, and diodes (2) each connected in parallel to each of the transistors (1), at least a part of diodes (2) and/or at least a part of transistors (1) and diodes (2) complying with the required specification of the power module are mounted on the substrate, and having the necessary required jumper means are provided.

5. (Currently Amended) A power module as set forth in claim 2, wherein the three phase converter (10) comprises transistors (11) serially connected to one another and a pair of first diodes (12) reversely connected for each phase, and a diode bridge (13) having a pair of connection points opposing to one another, each of the connection points being connected to the emitter terminal of the transistor (11) and the collector terminal of the transistor (11), and having another pair of connection points which are determined to be input and output points, and at least a part of transistors (11), the diode bridge (13), and the first diodes (12) complying with the required specification of the power module are mounted on the substrate, and having the necessary required jumper means are provided.

6. (Currently Amended) A power module as set forth in claim 2, wherein the three phase converter (10) comprises transistors (11) serially connected to one another and a pair of first diodes (12) reversely connected for each phase, and a diode bridge (13) having a pair of connection points opposing to one another, each of the connection points being connected to the emitter terminal of the transistor (11) and the collector terminal of the transistor (11), and having another pair of connection points which are determined to be input and output points, and only at least a part of first diodes (12) complying with the required specification of the power module are mounted on the substrate, and having the necessary required jumper means are provided.

7. (Currently Amended) A power module as set forth in claim 2, wherein the three phase converter (10) comprises transistors (11) serially connected to one another and a pair of first diodes (12) reversely connected for each phase, and a diode bridge

(13) having a pair of connection points opposing to one another, each of the connection points being connected to the emitter terminal of the transistor (11) and the collector terminal of the transistor (11), and having another pair of connection points which are determined to be input and output points, and at least a part of transistors (11) and the diode bridge (13) complying with the required specification of the power module are mounted on the substrate, and at least a part of first diodes (12) complying with the required specification of the power module are mounted on the substrate, and having the necessary required jumper means are provided.

8. (Currently Amended) A power module as set forth in claim 2, wherein the three phase converter (10) comprises transistors (11) serially connected to one another and a pair of first diodes (12) forwardly connected for each phase, and pairs of second diodes (15) each reversely connected between the emitter terminal of the transistor (11) and the collector terminal of the transistor (11), each pair of second diodes (15) being serially connected to one another, and at least a part of transistors (11) and second diodes (15) complying with the required specification of the power module are mounted on the substrate, and at least a pair of first diodes (12) complying with the required specification of the power module are mounted on the substrate, and having the necessary required jumper means are provided.

9. (Currently Amended) A power module as set forth in claim 2, wherein the three phase converter (10) comprises transistors (11) serially connected to one another and a pair of first diodes (12) forwardly connected for each phase, and pairs of second diodes (15) each reversely connected between the emitter terminal of the transistor (11) and the collector terminal of the transistor (11), each pair of second diodes (15) being serially connected to one another, and only at least a part of first diodes (12) complying with the required specification of the power module are mounted on the substrate, and having the necessary required jumper means are provided.

10. (Currently Amended) A power module as set forth in claim 3 ~~or claim 6~~, wherein

only at least a part of diodes ~~(2)~~ are mounted on the substrate, and a reactor ~~(8)~~ is connected outside of the exterior between the converter ~~(10)~~ and the smoothing condenser ~~(5)~~.

11. (Currently Amended) A power module as set forth in claim 9, wherein only at least a part of first diodes ~~(12)~~ are mounted on the substrate, and a reactor ~~(8)~~ is connected outside of the exterior between the converter ~~(10)~~ and the smoothing condenser ~~(5)~~.

12. (Currently Amended) A power module as set forth in claim 8, wherein a reactor ~~(16)~~ is connected in parallel to the converter ~~(10)~~, and a third diode ~~(17)~~ is reversely connected between the reactor ~~(16)~~ and the smoothing condenser ~~(5)~~.

13. (Currently Amended) A power module as set forth in claim 8, wherein a fourth diode ~~(18)~~ is forwardly connected in parallel to the converter ~~(10)~~, and a reactor ~~(19)~~ is connected between the fourth diode ~~(18)~~ and the smoothing condenser ~~(5)~~.

14. (Currently Amended) A power module for AC/AC power conversion ~~is a power module in which~~ comprising:

multiple converter components ~~constituting~~ including a multiple phase converter ~~(10)~~, and multiple inverter components ~~constituting~~ including a multiple phase inverter ~~(20)~~ ~~can~~ configured to be mounted on a substrate which has been formed necessary wirings, ~~the power module is arranged in that~~ at least a part of converter components, at least a part of smoothing condensers, and at least a part of inverter components complying with required specification of the power module are mounted on the substrate, and having the necessary required jumper means ~~are provided~~.

15. (Currently Amended) A power module as set forth in claim 14, further

comprising

a junction ~~means~~ to which a smoothing condenser (5) ~~can~~ is configured to be connected.

16. (Currently Amended) A power module as set forth in claim 14 ~~or claim 15~~, wherein

a three phase converter (10) is employed as the multiple phase converter (10) which can be mounted on the substrate, and a three phase inverter (20) is employed as the multiple phase inverter (20) which ~~can~~ is configured to be mounted on the substrate.

17. (Currently Amended) A power module as set forth in claim 14 ~~or claim 15~~, wherein

a three phase converter (10) comprising a pair of transistors (1) serially connected to one another for each phase, and diodes (2) each connected in parallel to each transistor (1), is employed as the three phase converter (10), and at least a part of diodes (2) and/or at least a part of transistors (1) and diodes (2) complying with required specification of the power module are mounted on the substrate, and having the necessary required jumper ~~means are provided~~.

18. (Currently Amended) A power module as set forth in claim 14 ~~or claim 15~~, wherein

a three phase converter (10) comprising a pair of transistors (1) serially connected to one another for each phase, and diodes (2) each connected in parallel to each transistor (1), is employed as the three phase inverter (10), and at least a part of transistors (1) and diodes (2) complying with required specification of the power module are mounted on the substrate, and having the necessary required jumper ~~means are provided~~.

19. (Currently Amended) A power module as set forth in claim 14 ~~or claim 15~~, wherein

a three phase converter (10) comprising transistors (11) serially connected to one

another and a pair of first diodes (12) reversely connected for each phase, and a diode bridge (13) having a pair of connection points opposing to one another, each of the connection points being connected to the emitter terminal of the transistor (11) and the collector terminal of the transistor (11), and having another pair of connection points which are determined to be input and output points, is employed as the three phase converter (10), and at least a part of transistors (11), the diode bridge (13), and the first diodes (12) complying with the required specification of the power module are mounted on the substrate, and having the necessary required jumper means are provided.

20. (Currently Amended) A power module as set forth in claim 14 ~~or claim 15~~, wherein

a three phase converter (10) comprising transistors (11) serially connected to one another and a pair of first diodes (12) reversely connected for each phase, and a diode bridge (13) having a pair of connection points opposing to one another, each of the connection points being connected to the emitter terminal of the transistor (11) and the collector terminal of the transistor (11), and having another pair of connection points which are determined to be input and output points, is employed as the three phase converter (10), and only at least a part of first diodes (12) complying with the required specification of the power module are mounted on the substrate, and having the necessary required jumper means are provided.

21. (Currently Amended) A power module as set forth in claim 16, wherein
a three phase converter (10) comprising transistors (11) serially connected to one another and a pair of first diodes (12) reversely connected for each phase, and a diode bridge (13) having a pair of connection points opposing to one another, each of the connection points being connected to the emitter terminal of the transistor (11) and the collector terminal of the transistor (11), and having another pair of connection points which are determined to be input and output points, is employed as the three phase converter (10), at least a part of transistors (11) and the diode bridge (13) complying with the required specification of the power module are mounted on the substrate, and at least a part of first

diodes (12) complying with the required specification of the power module are mounted on the substrate, and having the necessary required jumper means are provided.

22. (Currently Amended) A power module as set forth in claim 16, wherein a three phase converter (10) comprises transistors (11) serially connected to one another and a pair of first diodes (12) forwardly connected for each phase, and pairs of second diodes (15) each reversely connected between the emitter terminal of the transistor (11) and the collector terminal of the transistor (11), each pair of second diodes being serially connected to one another, is employed as the three phase converter (10), and at least a part of transistors (11) and second diodes (15) complying with the required specification of the power module are mounted on the substrate, and at least a part of first diodes (12) complying with the required specification of the power module are mounted on the substrate, and having the necessary required jumper means are provided.

23. (Currently Amended) A power module as set forth in claim 16, wherein a three phase converter (10) comprising transistors (11) serially connected to one another and a pair of first diodes (14) forwardly connected for each phase, and pairs of second diodes (15) each reversely connected between the emitter terminal of the transistor (11) and the collector terminal of the transistor (11), each pair of second diodes (15) being serially connected to one another, is employed as the three phase converter (10), and only at least a part of first diodes (14) complying with the required specification of the power module are mounted on the substrate, and having the necessary required jumper means are provided.

24. (Currently Amended) A power module as set forth in claim 17, wherein only at least a part of diodes (2) are mounted on the substrate, and a junction is means are provided for allowing the reactor (8) being to be connected between the converter (10) and the smoothing condenser (5).

25. (Currently Amended) A power module as set forth in claim 20, wherein

only at least a part of diodes (2) are mounted on the substrate, and a junction is
~~means are~~ provided for allowing the reactor (8) ~~being to be~~ connected between the converter
(10) and the smoothing condenser (5).

26 (Currently Amended) A power module as set forth in claim 23, wherein
only at least a part of first diodes (12) are mounted on the substrate, and a junction is
~~means are~~ provided for allowing the reactor (8) ~~being to be~~ connected between the converter
(10) and the smoothing condenser (5).

27. (Currently Amended) A power module as set forth in claim 22, wherein
a reactor (16) is connected in parallel to the converter (10), and a third diode (17) is
reversely connected between the reactor (16) and the smoothing condenser (5).

28. (Currently Amended) A power module as set forth in claim 22, wherein
a fourth diode (18) is forwardly connected in parallel to the converter (10), and a
reactor (19) is connected between the fourth diode (18) and the smoothing condenser (5).

29. (New) A power module as set forth in claim 6, wherein
only at least a part of diodes are mounted on the substrate, and a reactor is connected
outside of the exterior between the converter and the smoothing condenser.

30. (New) A power module as set forth in claim 15, wherein
a three phase converter is employed as the multiple phase converter which can be
mounted on the substrate, and a three phase inverter is employed as the multiple phase
inverter which ~~can~~ is configured to be mounted on the substrate.

31. (New) A power module as set forth in claim 15, wherein
a three phase converter comprising a pair of transistors serially connected to one
another for each phase, and diodes each connected in parallel to each transistor, is employed
as the three phase converter, and at least a part of diodes and/or at least a part of transistors

and diodes complying with required specification of the power module are mounted on the substrate, and having the required jumper.

32. (New) A power module as set forth in claim 15, wherein
a three phase converter comprising a pair of transistors serially connected to one another for each phase, and diodes each connected in parallel to each transistor, is employed as the three phase inverter, and at least a part of transistors and diodes complying with required specification of the power module are mounted on the substrate, and having the required jumper.

33. (New) A power module as set forth in claim 15, wherein
a three phase converter comprising transistors serially connected to one another and a pair of first diodes reversely connected for each phase, and a diode bridge having a pair of connection points opposing to one another, each of the connection points being connected to the emitter terminal of the transistor and the collector terminal of the transistor, and having another pair of connection points which are determined to be input and output points, is employed as the three phase converter, and at least a part of transistors, the diode bridge, and the first diodes complying with the required specification of the power module are mounted on the substrate, and having the required jumper.

34. (New) A power module as set forth in claim 15, wherein
a three phase converter comprising transistors serially connected to one another and a pair of first diodes reversely connected for each phase, and a diode bridge having a pair of connection points opposing to one another, each of the connection points being connected to the emitter terminal of the transistor and the collector terminal of the transistor, and having another pair of connection points which are determined to be input and output points, is employed as the three phase converter, and only at least a part of first diodes complying with the required specification of the power module are mounted on the substrate, and having the required jumper.